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NEW RECORDS OF WATER BEETLES (COLEOPTERA: HELOPHORIDAE, HYDROPHILIDAE, HYDRAENIDAE) FROM COMMANDER ISLANDS

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Summary. Two families of the water beetles (Hydrophilidae and Hydraenidae) and three species (*Helophorus auricollis* Eschscholtz, 1822, *Cercyon symbion* Shatrovskiy, 1989, and *Ochthebius* aff. *yoshitomii* Jäch et Delgado, 2014) are recorded for the first time from Commander Islands (Kamchatka krai, Russia).

Key words: Coleoptera, Helophoridae, Hydrophilidae, Hydraenidae, fauna, new record, Commander Islands, Russian Far East.

**А. С. Сажнев. Новые находки водных жесткокрылых (Coleoptera:
Helophoridae, Hydrophilidae, Hydraenidae) на Командорских островах //
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Резюме. Впервые для Командорских островов (Россия: Камчатский край) указываются два семейства водных жесткокрылых (Hydrophilidae и Hydraenidae) и три вида: *Helophorus auricollis* Eschscholtz, 1822, *Cercyon symbion* Shatrovskiy, 1989 и *Ochthebius* aff. *yoshitomii* Jäch et Delgado, 2014.

INTRODUCTION

Eight species from three families of water beetles were recorded from Commander Island, namely *Gyrinus opacus* Sahlberg, 1819 (Gyrinidae), *Ilybius angustior* (Gyllenhal, 1808), *I. fenestratus* (Fabricius, 1781), *Dytiscus dauricus* Gebler, 1832, *Rhantus notaticollis* (Aube, 1837), *Colymbetes dolabratus* (Paykull, 1798), *Hydroporus* sp. (Dytiscidae), and *Helophorus browni* McCorkle, 1967 (Helophoridae) (Lafer, 1989; Lobkova, 2010; Chuzhe-kova & Sazhnev, 2013).

The material has been collected by author on the territory of Commander Islands Nature and Biosphere Reserve in 2012, 2013 and 2015. Majority of collected beetles are stored in the Collection of aquatic invertebrates of the Papanin Institute for Biology of Inland Waters, Borok, Russia (IBIW), some specimens are kept in the Museum of Commander Islands Nature and Biosphere Reserve, Nikolskoye, Bering Island, Russia. Photographs of male genitalia and the localities were taken using a XSP 101 light stereomicroscope and a Olympus C-170 digital camera, respectively. Images were generated and enhanced by using PHOTOSHOP®.

NEW RECORDS

Family Helophoridae Leach, 1815

Genus *Helophorus* Fabricius, 1775

Helophorus (Rhopalohelophorus) auricollis Eschscholtz, 1822

Figs 1–3

MATERIAL EXAMINED. **Russia:** Kamchatka krai, Aleutsky District, Commander Islands, Bering Island, cove Buyan, stream in floodplain of Buyan River, 26.VII 2012, 1♂, 2♀ (coll. A.S. Sazhnev); same locality but in moss, 15.VI 2015, 1♂ (coll. A.S. Sazhnev).

NOTES. All specimens were collected under stones in semiaquatic zone of streams in floodplain of Buyan River (Figs 2, 3). The previous record of *Helophorus browni* McCorkle, 1967 from Bering Island (Chuzhekov & Sazhnev, 2013) should be attributed to this species.

DISTRIBUTION. Russia (East Siberia, Russian Far East), North America (Fikáček *et al.*, 2015).



Figs 1–3. *Helophorus auricollis*. 1 – male genitalia, dorsal view; 2, 3 – habitat on the Bering Island (floodplain of Buyan River).

Family Hydrophilidae Latreille, 1802

NOTES. This family is recorded from Commander Islands for the first time.

Genus *Cercyon* Leach, 1817

Cercyon (Cercyon) symbion Shatrovskiy, 1989

Figs 4–7

MATERIAL EXAMINED. **Russia:** Kamchatka krai, Aleutsky District, Commander Islands, Bering Island, cove Buyan, coast of Bering Sea, under decomposing seaweed, 25–26.VII 2012, 5♂, 9♀ (coll. A.S. Sazhnev); same locality, 21.VIII 2013, 2♂, 7♀ (coll. A.S. Sazhnev).

NOTES. This species is recorded from Kamchatka krai for the first time. All specimens of *Cercyon symbion* were collected at a distance of 2–10 meters from water edge line (Fig. 7) on the shore of Bering Sea under decomposing seaweed (*Laminaria*, *Fucus*), logs, and stones together with *Creophilus maxillosus* (Linnaeus, 1758), *Psammotriba* sp., *Adota* sp., *Aleochara nubis* (Staphylinidae), *Lyrosoma* sp. (Agyrtidae), *Hypnoidus* sp. (Elateridae), and Diptera larvae.

DISTRIBUTION. Russian Far East (Sakhalin Oblast', Primorsky krai, Kamchatka krai), Japan (Ryndovich, 2001; Ôhara & Jia, 2006; Fikáček *et al.*, 2015).



Figs 4–7. *Cercyon symbion*. 4–6 –male genitalia, dorsal view: 4 – tegmen with parameres; 5 – penis; 6 – genital segment; 7 – habitat on Bering Island (cove Buyan coast of Bering Sea).

Family Hydraenidae Mulsant, 1844

NOTES. This family is recorded from Commander Islands for the first time.

Genus *Ochthebius* Leach, 1815

Ochthebius (Ochthebius) aff. yoshitomii Jäch et Delgado, 2014
Figs 8–10

MATERIAL EXAMINED. **Russia:** Kamchatka krai, Aleutsky District, Commander Islands, Bering Island, Vkhodnoy Rif cape, coast of Pacific Ocean, in the cracks of the rocks, 26.VI 2015, 3 exs. (coll. A.S. Sazhnev); Toporkov Island, coast of Pacific Ocean, in the cracks of the rocks, 1.VII 2015, 7 exs. (coll. A.S. Sazhnev).

NOTES. Specimens from Commander Archipelago are identified by us as *Ochthebius yoshitomii*, which belong *Ochthebius vandykei* species group (Jäch & Delgado, 2014), but probably the populations from Commander Islands belong to a new undescribed species. All specimens of *O. yoshitomii* were collected in littoral zone in the cracks of the rocks (Figs 8–10) together with endemic to Commander Archipelago *Aegialites beringensis* Zerche, 2004 (Salpingidae) (Sazhnev, 2015).

DISTRIBUTION. Russia (Kuril Islands: Kunashir Island, Paramushir Island; Commander Islands: Bering Island, Toporkov Island); Japan (Hokkaido Island, northern part of Honshu Island) (Jäch & Delgado, 2014; Prokin *et al.*, 2015).

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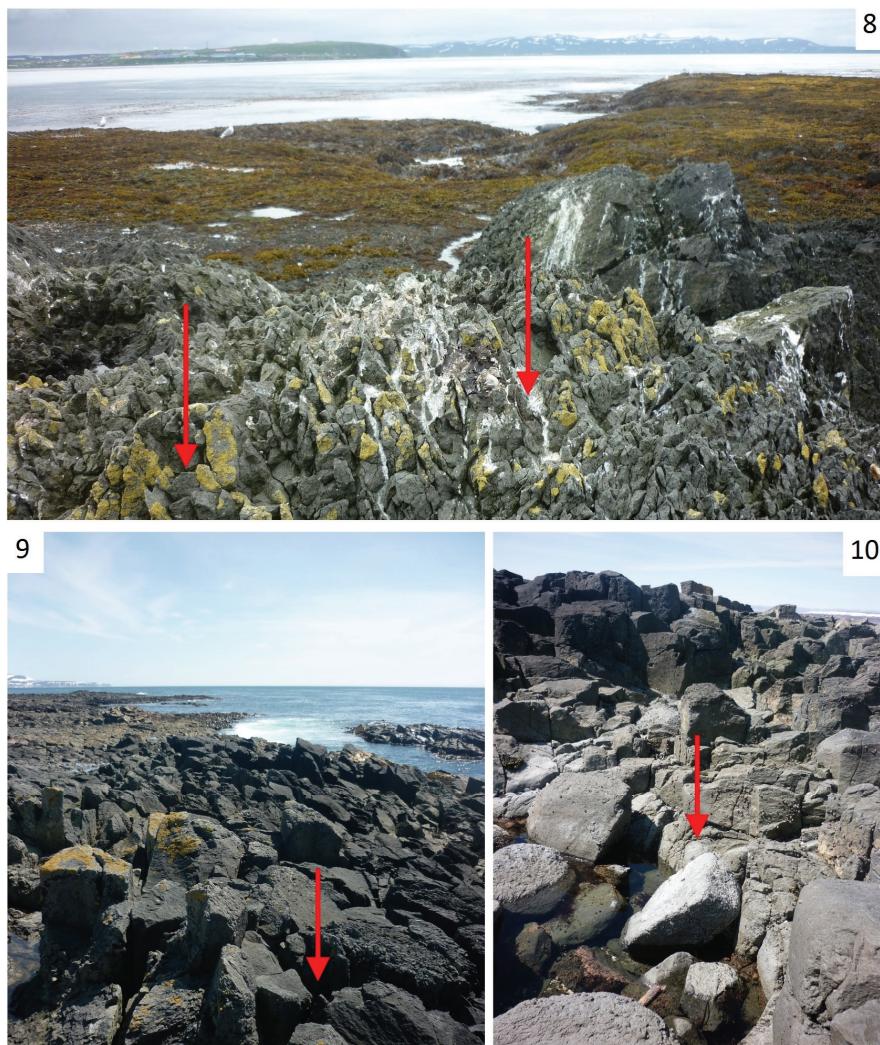


Fig. 8–10. Habitat of *Ochthebius yoshitomii* on the Commander Islands. 8 – Toporkov Island (coast of Pacific Ocean); 9, 10 – Bering Island (Vkhodnoy Rif cape, coast of Pacific Ocean).

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